

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
**WO 2005/063766 A2**

(51) International Patent Classification<sup>7</sup>: **C07D 487/04**,  
A61K 31/437, A61P 29/00, C07D 473/00

[CN/US]; 144 Montoya Circle, Branford, CT 06405 (US).  
**LANG, Hengyuan** [US/US]; 13798 Kerry Lane, San  
Diego, CA 92130 (US).

(21) International Application Number:

PCT/US2004/043682

(74) Agent: **RIEGER, Dale, L.**; Fish & Richardson P.C.,  
12390 El Camino Real, San Diego, CA 92130 (US).

(22) International Filing Date:

23 December 2004 (23.12.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU,  
ZA, ZM, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/532,529 23 December 2003 (23.12.2003) US  
60/575,113 28 May 2004 (28.05.2004) US

(63) Related by continuation (CON) or continuation-in-part  
(CIP) to earlier applications:

US 60/575,113 (CIP)  
Filed on 28 May 2004 (28.05.2004)  
US 60/532,529 (CIP)  
Filed on 23 December 2003 (23.12.2003)

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **TRIAD  
THERAPEUTICS, INC.** [US/US]; 9381 Judicial Drive,  
San Diego, CA 92121 (US).

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **DONG, Qing**  
[CN/US]; 11087 Morning Creek Drive, San Diego, CA  
92128 (US). **WANG, Jianqiang** [CN/US]; 5 Kimball  
Court, Apt. 501, Woburn, MA 01801 (US). **LAN, Jiong**

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: BICYCLIC HETEROCYCLIC P-38 KINASE INHIBITORS

(57) Abstract: Provided are bicyclic heterocycle-based p38 kinase, including p38 $\alpha$  and p38 $\beta$  kinase, inhibitors. Pharmaceutical compositions containing the compounds are also provided. Methods of use of the compounds and compositions are also provided, including methods of treatment, prevention, or amelioration of one or more symptoms of p38 kinase mediated diseases and disorders, including, but not limited to, inflammatory diseases and disorders.



WO 2005/063766 A2